Academy
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Primitives

Primitive $\longleftrightarrow$ Dérivée

$$F \longleftrightarrow f \longleftrightarrow f' \longleftrightarrow f''$$

$$c^{te}\,x \longleftrightarrow c^{te}$$

$$3x \longleftrightarrow 3$$

$$-\sqrt{2}\,x \longleftrightarrow -\sqrt{2}$$

$$\frac{x^{n+1}}{n+1} \longleftrightarrow x^n$$

$$\frac{x^2}{2} \longleftrightarrow x$$

$$\frac{x^4}{4} \longleftrightarrow x^3$$

$$-\frac{1}{(n-1)x^{n-1}} \longleftrightarrow \frac{1}{x^n} \qquad n \in \mathbb{N}^* \setminus \{1\}$$

$$-\frac{1}{2x^2} \longleftrightarrow \frac{1}{x^3}$$

$$-\frac{1}{6x^6} \longleftrightarrow \frac{1}{x^7}$$

$$\frac{2}{3}x\sqrt{x} \longleftrightarrow \sqrt{x}$$

$$2\sqrt{x} \longleftrightarrow \frac{1}{\sqrt{x}}$$

$$\frac{2}{3}u\sqrt{u} \longleftrightarrow u'\sqrt{u}$$

$$\frac{2}{3}(x^2+1)\sqrt{x^2+1} \longleftrightarrow \underbrace{2x}_{u'}\sqrt{\underbrace{x^2+1}_{u}}$$

$$2\sqrt{u} \longleftrightarrow \frac{u'}{\sqrt{u}}$$

$$2\sqrt{x^2+1} \longleftrightarrow \frac{\overbrace{2x}^{u'}}{\sqrt{\underbrace{x^2+1}_{u}}}$$

$$\frac{u^{n+1}}{n+1} \longleftrightarrow u'u^n$$

$$\frac{(x^2+1)^8}{8} \longleftrightarrow \underbrace{2x}_{u'}\underbrace{(x^2+1)^7}_{u}$$

$$-\frac{1}{(n-1)u^{n-1}} \longleftrightarrow \frac{u'}{u^n}$$

$$-\frac{1}{6(x^2+1)^6} \longleftrightarrow \frac{\overbrace{2x}^{u'}}{\underbrace{(x^2+1)^7}_{u}}$$

$$u \circ v(x) \longleftrightarrow v' \times u'(v(x))$$

$$\sin\underbrace{(\ln x)}_{v} \longleftrightarrow \underbrace{\frac{1}{x}}_{v'}\cos\underbrace{(\ln x)}_{v}$$

Qarray.tn - Aqra Bledi - Qarray.tn